

GOVERNMENT OF ANDHRA PRADESH

ABSTRACT

Utilization of Remote Sensing and Geographical Information System services for planning, implementation and monitoring of development activities of the departments - Establishment of Spatial Data Management Hubs (SDMH) in Departments and Districts - orders - Issued

PLANNING (I) DEPARTMENT

G.O. Ms. No. 5

Dated: 19-02-2014

Read the following:

- 1) G. O. Ms. No. 213, Energy, Forest, Environment, Science & Technology (S&T) department dated 04-07-1989.
- 2) G. O. Ms. No. 164, Finance & Planning (Plg XVI) Department dated 05-10-1999.
- 3) G. O. Ms. No. 28, Planning (I) Department dated 05-08-2013.
- 4) G. O. Ms. No. 29, Planning (I) Department dated 05-08-2013.
- 5) Minutes of the Meeting held on 26-08-2013 & 26-10-2013 on ICT agenda and Road Map thereon for the State in the chambers of Chief Secretary to Government, A.P.
- 6) G. O. Ms. No. 1, Information Technology, Electronics & Communication Department (Portal Wing) dated 01-01-2014.

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ORDER

In the G.O. 2nd read above Government appointed Andhra Pradesh State Remote Sensing Applications Centre (APSRAC) as the nodal agency for Remote Sensing (RS) & Geographic Information System (GIS) applications related requirements of the departments of the state of Andhra Pradesh. APSRAC already has a huge library of satellite dataset, SOI topo-sheet. It also has thematic layers like land use, land cover, geomorphology, transport network, soil resources and fertility, ground water potential and quality, cadaster maps etc on various scales for different time period. APSRAC has been providing remote sensing and GIS related services to various departments like (1) Irrigation, (2) Panchayat Raj, (3) Roads & Buildings, (4) Mines etc. (5) Agriculture and Rural Development, (6) Fisheries.

2. In the G.O. 3rd read above orders were issued for establishment of the Andhra Pradesh Geographic Management Information System (APGMIS) with an objective of a new information regime supporting good governance, sustainable development and citizen empowerment through offering GIS decision support services; a state-wide, standardized, seamless and most-current GIS asset for governance, private enterprise and citizens. (Andhra Pradesh State Remote Sensing Applications Centre has been given the responsibility for establishment, updating and maintenance of the APGMIS and all matters connected to thereof).

3. In the G.O. 4th read above, orders were issued for establishment of the Andhra Pradesh State Spatial Data Infrastructure (APSSDI) as state level repository of a digital "warehouse" of the state map data holdings (that include the satellite images, SOI maps and other GIS layers) and to facilitate the sharing and access of the digital spatial information for promoting remote sensing based planning and monitoring of activities at community, local and state levels for better governance. Andhra Pradesh State Remote Sensing Applications Centre (APSRAC) has been given the responsibility for establishment, updating and maintenance of the APSSDI and all matters connected to thereof.

4. In the G.O. 6th read above orders were issued for establishment of the State e-Governance Framework and guidelines for implementation of e-Governance programmes in all State Government Departments/ Districts using non spatial Information & Communications Technologies (ICT).

5. Government of Andhra Pradesh currently utilizes remote sensing and geographic information system in various aspects of governance for planning, implementation and monitoring of different development activities and regulatory activities and desires to institutionalize and extend good governance and sustainable development in the state through use of e-government tools covering both spatial and non-spatial services.

6. Government after careful examination of the matter hereby decided to establish **Spatial Data Management Hubs (SDMH)** in the departments and in all the districts headquarters with the requisite human resource capacity, hardware and software and hereby issue the following orders to facilitate adoption of Remote Sensing and GIS based decision support services by the departments for programme/ scheme planning, implementation and monitoring, good governance, sustainable development and citizen empowerment.

a) **Spatial Data Management Hubs (SDMH)** with the requisite human resource capacity, hardware and software should be established in government departments/ corporations and all districts for creating standardized, seamless GIS assets and support use of remote sensing and GIS in planning, implementation and monitoring of government programmes/ schemes/ services. 16 departments and all districts have been identified for establishing the SDMH, while all other departments are encouraged to do the same.

- i. Panchayathi Raj Department
- ii. Roads & Buildings Department
- iii. Medical & Health Department
- iv. Education Department
- v. Social Welfare Department
- vi. Tribal Welfare Department
- vii. Irrigation & Command Area Development Department
- viii. Rural Development Department
- ix. Agriculture Department
- x. Rural Water Supply & Sanitation Department
- xi. Municipal Administration & Urban development department
- xii. CCLA - Survey Settlement of Land Records
- xiii. Energy Department
- xiv. WAKF
- xv. Forest Department
- xvi. Planning Department

b) Andhra Pradesh State Remote Sensing Applications Centre (APSRAC) shall provide technical support to all government departments/ corporations and all districts in establishing and coordinating their respective SDMH including identification of personnel to staff the SDMH and procurement of required hardware and software. The use of open source software shall be promoted to the extent possible. APSRAC shall establish a team for providing technical support and development of tools in open source software.

c) Since establishing a separate IT/ RS / GIS service is likely to be time consuming process, the departments / corporations and all districts shall proceed with RS / GIS cadre development

with its own departmental officers. Departments / corporations and all districts to notify and preselect departmental persons with flair for RS / GIS work. APSRAC shall provide training for specializing in RS / GIS to these persons. These persons cannot be shifted without permission of the Chief Secretary. A committee will be constituted subsequently to propose necessary facilities and incentives to be provided to these persons to maintain their continuity.

- d) **State Level SDMH:** Application development and RS / GIS technical experts' team will be established in APSRAC to support the department / corporation / district SDMHs. The State Level SDMH team shall initially consist of up to 10 persons (including at least one person in Scientist C/D cadre) from various fields like data analytics, application development, system architects, tester, cloud GIS, web GIS etc. APSRAC will include the cost of these personnel in its annual budg
- e) **Department Level SDMT:** Each department shall have a **Departmental Spatial Data Management Team (SDMT)** consisting of domain and GIS experts. A departmental person (Joint Director cadre and above) shall head the SDMH team and be designated as Joint director (SDMH) or Director (SDMH) as the case may be. The SDMT include 2-3 departmental domain specific persons, out of the preselected officers mentioned above and 2-3 GIS professionals contracted, as per the requirement. The GIS professionals contracted will be paid out of the e-procurement funds Governance funds or Mee Seva funds.
- f) **District Level SDMT:** A district level SDMT shall be established in the office of Chief Planning Officer. The District SDMT shall consist of 2-3 departmental officers (domain specialists) preselected by the District Collector and 2-3 contracted GIS professionals, selected in consultation with APSRAC, as per the requirement. The District SDMT shall work under overall control of the District Collector to facilitate the district level planning and monitoring of various developmental programmes. The GIS professionals contracted will be paid out of the e-procurement funds Governance funds or Mee Seva funds.
- g) All department level and district level SDMT shall prepare Spatial Data Services Roadmaps for their respective department/ corporation/ district which would include identification of gaps, planning, implementation and monitoring of government programmes / schemes and facilitate achievement of identified results.
- h) Andhra Pradesh State Remote Sensing Applications Centre (APSRAC) shall provide technical support to the SDMH in preparing the Roadmaps. Andhra Pradesh State Remote Sensing Applications Centre (APSRAC) shall be solely responsible for preparing all base maps / shape files (polygon, line or point) for the Government of Andhra Pradesh and supplying them to all government departments/ corporations and all district SDMH for preparing any GIS assets
- i) Andhra Pradesh State Remote Sensing Applications Centre (APSRAC) shall provide training and capacity building support to all government departments/ corporations and all districts for their SDMH personnel.
- j) **Satellite Imageries to be procured only through APSRAC** - APSRAC would catalogue the available imageries and provide these imageries, as per the APSSDI framework, with no cost to the departments/ corporations and all districts SDMH as per the need and the restriction policy in vogue. All departments/ corporations shall procure the imageries only through Andhra Pradesh State Remote Sensing Applications Centre (APSRAC). The departments/ corporations and districts SDMH shall place funds with APSRAC for procurement of such remote sensing imageries. APSRAC shall determine annually the remote sensing imagery

requirements for the Government of Andhra Pradesh and procure the same for and in name of the Government of Andhra Pradesh and share with all the departments as per the requirement to avoid duplication in procurement of images and effective use of the resources available.

- k) **Coordination** – The APSRAC shall be responsible for co-ordination of the establishment of SDMH and SDMT.
- l) **Monitoring Committee** - A bi-monthly review of the progress of the services offered, and use of RS and GIS in planning and monitoring shall be reviewed atleast once in two months by a committee under the Chairmanship of Chief Secretary and with Special Chief Secretary / Principal Secretary / Secretaries of Planning, Finance, PR, TR&B, Medical and health, Rural development, Social welfare and Tribal welfare departments as members. The other Secretaries / HODs of other departments will be invited as special invitees on the need basis.

(BY ORDER AND IN THE NAME OF THE GOVERNOR OF ANDHRA PRADESH)

Dr.P.K. MOHANTY
CHIEF SECRETARY TO GOVERNMENT

To,
All Spl. Chief Secretaries / Prl. Secretaries / Secretaries to Govt.,
All Heads of the Departments
All the District Collectors
Copy to: Principal Secretary to Chief Minister
P.S. to Finance Minister
P.S. to Chief Secretary
P.S. to Special Chief Secretary to Government, Planning Department
SF/SC.

//FORWARDED::BY ORDER//

SECTION OFFICER